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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/549,401	02/08/2006	Brian J Daniels	H0006041-US	2482
128 7.590 10/28/2999 HONEYWELL INTERNATIONAL INC. PATENT SERVICES 101 COLUMBIA ROAD PO BOX 2245			EXAMINER	
			IP, SIKYIN	
			ART UNIT	PAPER NUMBER
MORRISTOWN, NJ 07962-2245			1793	
			MAIL DATE	DELIVERY MODE
			10/28/2009	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Application No. Applicant(s) 10/549,401 DANIELS ET AL. Office Action Summary Examiner Art Unit Sikvin Ip 1793 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS. WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on 12 August 2009. 2a) This action is FINAL. 2b) This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1.2.4-6 and 8-24 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) _____ is/are allowed. 6) Claim(s) 1,2,4-6 and 8-24 is/are rejected. 7) Claim(s) _____ is/are objected to. 8) Claim(s) _____ are subject to restriction and/or election requirement. Application Papers 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are; a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abevance. See 37 CFR 1.85(a). Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152. Priority under 35 U.S.C. § 119 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. Attachment(s)

1) Notice of References Cited (PTO-892)

Notice of Draftsperson's Patent Drawing Review (PTO-948)

Imformation Disclosure Statement(s) (PTC/G5/08)
 Paper No(s)/Mail Date ______.

Interview Summary (PTO-413)
 Paper No(s)/Mail Date.

6) Other:

Notice of Informal Patent Application

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

The factual inquiries set forth in Graham v. John Deere Co., 383 U.S. 1, 148

USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

- Determining the scope and contents of the prior art.
- 2. Ascertaining the differences between the prior art and the claims at issue.
- Resolving the level of ordinary skill in the pertinent art.
- Considering objective evidence present in the application indicating obviousness or nonobviousness.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1, 2, 4-6 and 8-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP01096374 (PTO-1449).

Claims 11-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 2002069550.

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Claims 17-24 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP 10287939 (PTO-1449). JP 04165037. JP 03072043 or JP 10287939 (PTO-1449).

JP 10287939, JP 03072043, JP 04165037, JP01096374, or JP2002069550 in their respective abstract discloses the features including the claimed target Cu alloy/thin film. Therefore, when prior art compounds essentially "bracketing" the claimed compounds in structural similarity are all known, one of ordinary skill in the art would clearly be motivated to make those claimed compounds in searching for new products in the expectation that compounds similar in structure will have similar properties. In re-Harris, 409 F.3d at 1341, In re Gyurik, 596 F.2d 1012, 1018, 201 USPQ 552, 557 (CCPA 1979); See In re May, 574 F.2d 1082, 1094, 197 USPQ 601, 611 (CCPA 1978) and In re Hoch, 57 CCPA 1292, 1296, 428 F.2d 1341, 1344, 166 USPQ 406, 409 (1970). As stated in In re Peterson, 315 F.3d 1325, 1329-30, 65 USPQ2d 1379, 1382 (Fed. Cir. 2003), that "A prima facie case of obviousness typically exists when the ranges of a claimed composition overlap the ranges disclosed in the prior art". Therefore, it would have been obvious to one of ordinary skill in the art to select any portion of range, including the claimed range, from the broader range (Ex parte Fu. 2008 WL 867826 (BPAI 2008) disclosed in a prior art reference because the prior art reference finds that the prior art composition in the entire disclosed range has a suitable utility. Also see MPEP § 2131.03 and § 2123.

The "target", "thin film", or "interconnect" in instant claims fail to recite structures; thus, it reads on the products of cited references. *Kropa v. Robie*, 88 USPQ 478 (CCPA

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1951) and Corning Glass Works v. Sumitomo Electric U.S.A. Inc., (CA FC), 9 USPQ2d 1962.

Response to Arguments

Applicant's arguments filed August 12, 2009 have been fully considered but they are not persuasive.

Termony-to-the-references, all of the independent claims are amended herein to consist of copper, tin and then at least one additional element from the list shown in the claim. None of those elements are silver. Therefore, JP 2002-060550 can immediately be

Applicants argue that " welt-drawn, since it requires salver. " But, it

is found inconsistent with instant independent claims 17 and 21 which fail to recite "consisting of". Thus, Ag is not excluded from JP 2002-069550.

Applicants argue that instant claims exclude P from JP 03072043. But, claims 17-24 recite "comprising" which does not exclude P.

Applicants argue that instant claims exclude Cr from JP 04165037 and JP 10287939. But, claims 17-24 recite "comprising" which does not exclude Cr.

Applicants' argument in page 7 of instant remarks is noted. But, first, the alloying elements of cited references are disclosed for target material as instant claims.

Second, elements in cited references are also cited in Markush group as instant claims.

Thus, selecting known elements for specific properties for target material is contemplated within ambit of ordinary skill artisan.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. JP 57056215 and JP 01096376 are references submitted Application/Control Number: 10/549,401

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applicants, which in their abstracts have shown that the claimed Cu target alloys

elements and their proportions are known for target materials.

Applicant is reminded that when amendment and/or revision is required, applicant should therefore specifically point out the support for any amendments made to the disclosure. See 37 C.F.R. § 1.121; 37 C.F.R. Part §41.37 (c)(1)(v); MPEP §714.02; and MPEP §2411.01(B).

Examiner Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to S. Ip whose telephone number is (571) 272-1241. The examiner can normally be reached on Monday to Thursday from 5:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Roy V. King, can be reached on (571)-272-1244.

The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

/Sikyin Ip/ Primary Examiner, Art Unit 1793

October 26, 2009